

ABSTRACT  
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A method for producing a composite object includes at least two distinct parts having different properties and/or functions, which includes forming at least one layer (53) having more than 70 wt.% of an expanded material selected from expanded graphites, forming at least one other layer (52) and more than 70 wt.% of another expanded material selected from expanded vermiculites, and then compressing the layers so formed together so as to consolidate them, each consolidated layer corresponding to one of the parts of the object. The method permits especially the production of composite objects such as an electrochemical cell, a casting mold or a heliothermal converter.